

Application No.: 10/502,106

Case No.: 57213US004

LIST OF CLAIMS:

The following list of claims will replace all prior versions of claims in the application:

1. (original) A process for finish-abrading an optical-fiber-connector end-surface which comprises a step of abrading an optical-fiber-connector end-surface with using an abrasive film composed of abrasive grains fixed on a film-form substrate, in the presence of a lubricating liquid,
wherein the lubricating liquid is an aqueous solution containing a hydrophilic surfactant.
2. (original) The process according to claim 1, wherein the abrasive film comprises an abrasive layer which has abrasive grains and a binder, on a film-form substrate.
3. (original) The process according to claim 1, wherein the abrasive grains comprise silica having a grain size of 1 to 500 nm.
4. (original) The process according to claim 2, wherein the binder has a Young's modulus of 1 to 500 MPa.
5. (original) The process according to claim 2, wherein the abrasive layer has a three-dimensional structure constructed with a plurality of regularly arranged three-dimensional elements having a predetermined shape.
6. (original) The process according to claim 5, wherein tops of said three-dimensional elements are constructed with lines parallel to a surface of the substrate, and the lines are located on a plane parallel to the surface of the substrate.
7. (previously presented) The process according to claim 1, wherein the surfactant is an anionic surfactant.

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8. (previously presented) The process according to claim 1, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.

9. (original) The process according to claim 1, wherein the lubricating liquid has a content of a surfactant of 0.5 to 10% by weight.

10. (previously presented) The process according to claim 2, wherein the surfactant is an anionic surfactant.

11. (previously presented) The process according to claim 3, wherein the surfactant is an anionic surfactant.

12. (previously presented) The process according to claim 4, wherein the surfactant is an anionic surfactant.

13. (previously presented) The process according to claim 5, wherein the surfactant is an anionic surfactant.

14. (previously presented) The process according to claim 6, wherein the surfactant is an anionic surfactant.

15. (previously presented) The process according to claim 2, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.

16. (previously presented) The process according to claim 3, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.

17. (previously presented) The process according to claim 4, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.

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18. (previously presented) The process according to claim 5, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.

19. (previously presented) The process according to claim 6, wherein the surfactant is a nonionic surfactant having a HLB (hydrophilic lipophilic balance) value of 8 to 20.